

Claims

What is claimed is

1. A phase shifted binary transmission encoder with a data input and a data output, where the phase shifted binary transmission encoder includes an exclusive or gate having two inputs and an output, the output of the exclusive or gate being the output of the phase shifted binary transmission encoder, where one input of the exclusive or gate is connected with the output via a first flip-flop and the other input of the exclusive or gate is connected with the data input via a second flip-flop, both flip-flops being connected with a clock input, wherein the flip-flops are transparent D flip-flops.
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2. A phase modulator comprising the phase shifted binary transmission encoder according to claim 1.
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3. An optical network element comprising a phase modulator according to claim 2 for phase shaped binary transmission.